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ISBN: 0824707664

Title: Power Transformers (Power Engineering) - 1st edition (April 12, 2002)

Author: John Winders

Publisher: CRC

Publication Date: 2002-04-12

Number Of Pages: 296

Power Transformers features extensive coverage on zigzag, Scott, tee, wye, and delta connections ... tap changing under

load and variable-phase shifting ...
advantages and disadvantages in coil
selection and construction ...
symmetrical components ... transformer
nameplate rating, thermal capability, and
rate calculation of loss of life ...
abnormal operating conditions such as
overloads, short circuits, single phasing
from primary fuse operations,
ferroresonance, and voltage surges ...
proper system design and selection to
reduce faulty operation ... and
preventive and predictive maintenance,
good utility practices, factory and field
testing, and failure rate analysis.

Booknews Annotation

Reviews the basic theory of electric power transformers, its application to various types of transformer designs, and their application in utility and industrial power systems. The book begins with the principles of the two-winding transformer and its connection to polyphase systems, the origins of transformer losses, autotransformers, and three-winding transformers. Different types of transformer coil and coil construction are compared. Later chapters describe the effects of short circuits on transformers, the design and maintenance of ancillary equipment, and both preventative and predictive

maintenance practices for extending transformer life.

Annotation c. Book News, Inc.,
Portland, OR (booknews.com)

byB:

Series Introduction

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